FIG. 1A

```
1     CCGGCAGAGATGGTTGAGCTCATGTTCCCGCTGTTGCTCCTCCTTCTGCCCTTCCTTCTG
1              M  V  E  L  M  F  P  L  L  L  L  L  L  P  F  L  L
61    TATATGGCTGCGCCCCAAATCAGGAAAATGCTGTCCAGTGGGGTGTGTACATCAACTGTT
18    Y  M  A  A  P  Q  I  R  K  M  L  S  S  G  V  C  T  S  T  V
121   CAGCTTCCTGGGAAAGTAGTTGTGGTCACAGGAGCTAATACAGGTATCGGGAAGGAGACA
38    Q  L  P  G  K  V  V  V  V  T  G  A  N  T  G  I  G  K  E  T
181   GCCAAAGAGCTGGCTCAGAGAGGAGCTCGAGTATATTTAGCTTGCCGGGATGTGGAAAAG
58    A  K  E  L  A  Q  R  G  A  R  V  Y  L  A  C  R  D  V  E  K
241   GGGGAATTGGTGGCCAAAGAGATCCAGACCACGACAGGGAACCAGCAGGTGTTGGTGCGG
78    G  E  L  V  A  K  E  I  Q  T  T  T  G  N  Q  Q  V  L  V  R
301   AAACTGGACCTGTCTGATACTAAGTCTATTCGAGCTTGGGCTAAGGGCTTCTTAGCTGAG
98    K  L  D  L  S  D  T  K  S  I  R  A  W  A  K  G  F  L  A  E
361   GAAAAGCACCTCCACGTTTGGATCAACAATGCAGGAGTGATGATGTGTCCGTACTCGAAG
118   E  K  H  L  H  V  W  I  N  N  A  G  V  M  M  C  P  Y  S  K
421   ACAGCAGATGGCTTTGAGATGCACATAGGAGTCAACCACTTGGGTCACTTCCTCCTAACC
138   T  A  D  G  F  E  M  H  I  G  V  N  H  L  G  H  F  L  L  T
481   CATCTGCTGCTAGAGAAACTAAAGGAATCAGCCCCATCAAGGATAGTAAATGTGTCTTCC
158   H  L  L  L  E  K  L  K  E  S  A  P  S  R  I  V  N  V  S  S
541   CTCGCACATCACCTGGGAAGGATCCACTTCCATAACCTGCAGGGCGAGAAATTCTACAAT
178   L  A  H  H  L  G  R  I  H  F  H  N  L  Q  G  E  K  F  Y  N
601   GCAGGCCTGGCCTACTGTCACAGCAAGCTAGCCAACATCCTCTTCACCCAGGAACTGGCC
198   A  G  L  A  Y  C  H  S  K  L  A  N  I  L  F  T  Q  E  L  A
661   CGGAGACTAAAAGGCTCTGGCGTTACGACGTATTCTGTACACCCTGGCACAGTCCAATCT
218   R  R  L  K  G  S  G  V  T  T  Y  S  V  H  P  G  T  V  Q  S
```

FIG. 1B

```
721   GAACTGGTTCGGCACTCATCTTTCATGAGATGGATGTGGTGGCTTTTCTCCTTTTTCATC
238   E  L  V  R  H  S  S  F  M  R  W  M  W  W  L  F  S  F  F  I
781   AAGACTCCTCAGCAGGGAGCCCAGACCAGGCTGCACTGTGCCTTAACAGAAGGTCTTGAG
258   K  T  P  Q  Q  G  A  Q  T  R  L  H  C  A  L  T  E  G  L  E
841   ATTCTAAGTGGGAATCATTTCAGTGACTGTCATGTGGCATGGGTCTCTGCCCAAGCTCGT
278   I  L  S  G  N  H  F  S  D  C  H  V  A  W  V  S  A  Q  A  R
901   AATGAGACTATAGCAAGGCGGCTGTGGGACGTCATTGTGACCTGCTGGGCCTCCCAATAG
298   N  E  T  I  A  R  R  L  W  D  V  I  V  T  C  W  A  S  Q  *
961   ACTAACAGGCAGTGCCAGTTGGACCCAAGAGAAGACTGCAGCAGACTACACAGTACTTCT
1021  TGTCAAAATGATTCTCCTTCAAGGTTTTCAAAACCTTTAGCACAAAGAGAGCAAAACCTT
1081  CCAGCC
```

Nucleotide and amino acid sequences of prostatic specific reductase (PSR).

FIG. 2A

```
1    M - - - - - - - - - A A P Q I R K M
1    M - - - - - - - - - - - - - - - - -
1    M L L L A A A F L V A F V L L L Y M

22   P G K V V V V T G A N T G I G K E T
4    T G R R A V V T G G A S G L G A E T
31   P G A H V V V T G G S S G I G K C I

52   L A C R D V E K G E L V A K E I Q -
34   V A T R R P L S A E P L V Q E L A -
61   L V A R N E D K L L Q A K K E I E M

80   K L D L S D T - K S I R A W A K G F
62   A L D L S D P - A S V E S F A R A W
91   S V D V S Q D Y N Q V E N V I K Q A

109  N A G V M M C P - Y S K - T A D G F
88   N A G I M A L P - T R T L A P N G W
121  C A G M A V S G K F E D L E V S T F

137  L L T H L L L E K L K E S A P S R I
117  A L A T G L H A A L R D A G S A R I
151  Y P S R A V I T T M K E R R V G R I
```

FIG. 2B

L	S	S	G	V	C	T	S	T	V	Q	L	PSR
-	-	-	-	-	-	-	-	-	-	D	L	Oxidoreductase
V	S	P	L	I	S	P	K	P	L	A	L	fvt1

A	K	E	L	A	Q	R	G	A	R	V	Y	PSR
V	R	A	L	A	A	A	G	A	E	V	T	Oxidoreductase
A	I	E	C	Y	K	Q	G	A	F	I	T	fvt1

-	T	T	T	G	N	Q	Q	V	L	V	R	PSR
-	A	A	G	G	A	G	R	V	T	A	E	Oxidoreductase
H	S	I	N	D	K	Q	V	V	L	C	I	fvt1

L	A	E	E	K	H	L	H	V	W	I	N	PSR
R	G	-	-	-	P	L	D	I	L	V	A	Oxidoreductase
Q	E	K	L	G	P	V	D	M	L	V	N	fvt1

E	M	H	I	G	V	N	H	L	G	H	F	PSR
E	M	Q	L	A	T	N	Y	L	G	H	F	Oxidoreductase
E	R	L	M	S	I	N	Y	L	G	S	V	fvt1

V	N	V	S	S	L	A	H	H	L	G	R	PSR
V	V	V	S	S	G	A	H	L	D	A	P	Oxidoreductase
V	F	V	S	S	Q	A	G	Q	L	G	L	fvt1

FIG. 2C

```
167  I H F - - - - - - - - - - - - - -
147  F D F - - - - - - - - - - - - - -
181  F G F T A Y S A S K F A I R G L A

182  L - - A Y C H S K L A N I L F T Q
163  V - - A Y G Q S K A A D V L F T V
211  I T V A Y P P D T D T P G F A E E

208  T T Y S V H P G T V Q S E L V R H
188  T V N A L N P G Y I L T R L Q R H
241  T T S V C K P E Q V A K Q I V K D

236  S F - - - - - - - - - - - - F I K
214  G V M D D Q G N V - K P L P Y Y K
265  S S L G S D G Y M L S A L T C G M

254  L T E G L E I L S G N H F S D C H
243  A S P L L K G V T G R Y F E D N Q
295  V T M G L F R T I A L F Y L G S F

274  - V S A Q A R N E T I A R R L W D
273  G V A A H A L D P E A A D R L W E
325  S E N A D - - - - - - - - - - - -
```

FIG. 2D

H	N	L	Q	-	G	E	K	F	Y	N	A	G	PSR
E	D	A	H	F	A	R	R	P	Y	D	P	W	Oxidoreductase
E	A	L	Q	M	E	V	K	P	Y	N	V	Y	fvt1
E	L	A	R	R	L	K	G	S	G	V	-	-	PSR
G	-	A	R	R	W	A	A	D	G	I	-	-	Oxidoreductase
N	R	T	K	P	L	E	T	R	L	I	S	E	fvt1
-	-	S	S	F	M	R	W	M	W	W	L	F	PSR
V	D	D	E	T	M	R	-	-	-	-	A	F	Oxidoreductase
A	I	Q	G	N	F	N	-	-	-	-	-	-	fvt1
T	P	Q	Q	G	A	Q	T	R	L	H	C	A	PSR
T	P	E	Q	G	A	A	T	S	V	L	L	A	Oxidoreductase
A	P	V	T	S	I	T	E	G	L	Q	Q	V	fvt1
V	A	W	-	-	-	-	-	-	-	-	-	-	PSR
E	A	R	T	V	Q	G	Q	E	D	Q	P	G	Oxidoreductase
D	S	I	V	R	R	C	M	M	Q	R	E	K	fvt1
V	I	V	T	C	W	A	S	Q					PSR
Y	G	T	D	A	L	-	R	A	A				Oxidoreductase
-	-	-	-	-	-	-	K	T	A				fvt1